

IN THE CLAIMS

Please amend the claims as follows:

1. (original) A radio repeater (8) for use in a short range radio communication system (1), the repeater (8) comprising a receiver for receiving a signal in a first frequency band and a transmitter for transmitting the signal in a second frequency band.

2. (original) The radio repeater (8) of claim 1, wherein the transmitter transmits the signal over a maximum range shorter than the maximum range of typical communication devices (5,6) intended to operate in the radio communication system (1).

3. (currently amended) The radio repeater (8) of claim 1 ~~or claim 2~~, wherein the transmitter transmits the signal over a maximum range of around 1m or less.

4. (currently amended) The radio repeater (8) of ~~any one of the preceding claims~~ claim 1, wherein the transmitter transmits the signal at power less than the power of typical communication devices (5,6) intended to operate in the radio communication system (1).

5. (currently amended) The radio repeater (8) of ~~any one of the preceding claims~~claim 1, wherein the first frequency band is the designated band of a short range wireless connectivity standard.

6. (currently amended) The radio repeater (8) of ~~any one of the preceding claims~~claim 1, wherein the second frequency band is at a lower frequency than the first frequency band.

7. (currently amended) The radio repeater (8) of ~~any one of the preceding claims~~claim 1, further comprising a means (12) for shifting the signal from the first frequency band to the second frequency band.

8. (original) The radio repeater (8) of claim 7, wherein the signal is shifted by a constant frequency offset.

9. (currently amended) The radio repeater (8) of ~~any one of the preceding claims~~claim 1, comprising a filter (10) for filtering signals received in the first frequency band to remove signals and noise that may interfere with a signal received from a first communication device (5,6) when transmitted by the repeater (8).

10. (currently amended) The radio repeater (8) of ~~any one of the preceding claims~~claim 1, comprising means for identifying the channel in which a/the first communication device (5,6) is transmitting the signal and filtering (the) signals received in the first frequency band to receive the signal in the channel.

11. (currently amended) The radio repeater (8) of ~~any one of the preceding claims~~claim 1, wherein the repeater (8) only transmits when it receives a signal in the first frequency band above a given signal strength.

12. (currently amended) The radio repeater (8) of ~~any one of the preceding claims~~claim 1 capable of being worn on or attached to the body or clothing of a user (4).

13. (currently amended) A short range radio communication (1) system comprising:

a first communication device (5,6) for transmitting the signal in the first frequency band;

the repeater (8) of ~~any one of the preceding claims~~claim 1;
and

a second communication device (5,6) for receiving the signal in the first frequency band or the second frequency band.

14. (original) The short range radio communication (1) system of claim 13, wherein the second communication device (5,6) selects to receive the signal in the second frequency band when the quality of the signal in the first frequency band is poor.

15. (original) A method of repeating a signal in a short range radio communication system (1), the method comprising receiving a signal in a first frequency band and transmitting the signal in a second frequency band.

16. (original) The method of claim 15, comprising transmitting the signal over a maximum range shorter than the maximum range of typical communication devices (5,6) intended to operate in the radio communication system (1).

17. (currently amended) The method claim 15 ~~or claim 16~~, comprising transmitting the signal over a maximum range of around 1m or less.

18. (currently amended) The method of ~~any one of claims 15 to 17~~ claim 15, comprising transmitting the signal at power less

than the power of typical communication devices (5,6) intended to operate in the radio communication system (1).

19. (currently amended) The method of ~~any one of claims 15 to 18~~claim 15, wherein the first frequency band is the designated band of a short range wireless connectivity standard.

20. (currently amended) The method of ~~any one of claims 15 to 19~~claim 15, wherein the second frequency band is at a lower frequency than the first frequency band.

21. (currently amended) The method of ~~any one of claims 15 to 20~~claim 15, comprising shifting the signal from the first frequency band to the second frequency band.

22. (original) The method of claim 21, comprising shifting the signal by a constant frequency offset.

23. (currently amended) The method of ~~any one of claims 15 to 22~~claim 15, comprising filtering signals received in the first frequency band to remove signals and noise that may interfere with a signal received from a first communication device when transmitted by the repeater.

24. (currently amended) The method of ~~any one of claim 15 to~~
~~23~~claim 15, comprising identifying the channel in which a/the first
communication device (5,6) is transmitting the signal and filtering
(the) signals received in the first frequency band to receive the
signal in the channel.

25. (currently amended) The method of ~~any one of claims 15~~
~~to 24~~claim 15, comprising only transmitting a signal when a signal
is received in the first frequency band above a given signal
strength.

26. (currently amended) A method of short range radio
communication comprising:

transmitting the signal in the first frequency band;

repeating the radio signal using the method of ~~any one of~~
~~claims 15 to 25~~claim 15; and

receiving the signal in the first frequency band or the second
frequency band.

27. (original) The method of claim 26, comprising selecting
to receiving the signal in the second frequency band when the
quality of the signal in the first frequency band is poor.